

SC4/SC6 MANUAL

Thank you for purchasing a DD Audio SC4 or SC6. We designed these products as OEM (Original Equipment Manufacturer) interface components that allow an audio technician to add aftermarket amplification to a factory-installed source unit. When installed properly this unit can be expected to give you years of trouble free operation. To achieve optimum performance we suggest you have your audio equipment installed by an authorized DD Audio dealer. To ensure ease of use and proper setup please take a moment to thoroughly read through this operation manual. We hope you thoroughly enjoy this product, and if you have any questions regarding the setup or installation please contact the DD Audio technical support team.

DESIGN FEATURES:

- Input summing
- Signal sense turn on (RCA and High level)
- Differential-balanced inputs
- Double Power supply
- Independent variable gains
- Detachable power and speaker input terminals
- OEM load detect compatible
- FR4 PCB
- Selectable ground isolation
- Aluminum Chassis

TECHNICAL SPECIFICATIONS

	SC4	SC6
Operating Voltage	8-16V	8-16V
Current Draw, No Signal	60mA	60mA
Input Impedance	180Ω	180Ω
RCA Output Voltage	10V	10V
Channel Separation	>65dB	>65dB
Output T.H.D.	0.01%	0.01%
S/N	>95dB	>95dB
REM OUT Output Current	12V >500mA	12V >500mA
Frequency Response (+/-1dB)	10Hz-50KHz	10Hz-50KHz
Input Sensitivity/ Input voltage Max	2-18V	2-18V
Dimensions mm (LxWxH)	98 x 104 x 25	98 x 119 x 25
Dimensions inches (LxWxH)	3.8 x 4 x 0.98	3.8 x 4.6 x 0.98

Input/Output Connections

HIGH LEVEL INPUT:

Connect to hi-level (speaker level) inputs for integrating into OEM audio systems.

TURN ON JUMPER:

When using signal sense turn-on insert the jumper to the correct pin position for your application.

- **DC-ON:** Use this pin position when the signal source outputs DC voltage.
- **ON-SE:** Use this pin position when the signal source does not output DC voltage.

GROUND JUMPER:

- The bottom two pins are the default chassis ground setting and should be proper for most applications.
- If engine noise is present move the jumper to the top two pins.

NOTE: Only insert the jumpers vertically, do not insert them horizontally.

REM OUT:

Provides a >500mA 12v switched turn-on signal for connected amplifiers. May require an additional relay for multi amp turn-on.

REM IN:

Connect to a switched +12V turn-on power input.

BATT+:

Connect to 8V-16V constant positive power supply input.

GND:

Connect to a verified chassis ground. Run a separate ground wire vs connecting it to a factory ground wire. Factory ground wires usually have multiple devices connected to them and are not recommended because this can lead to ground loop issues.

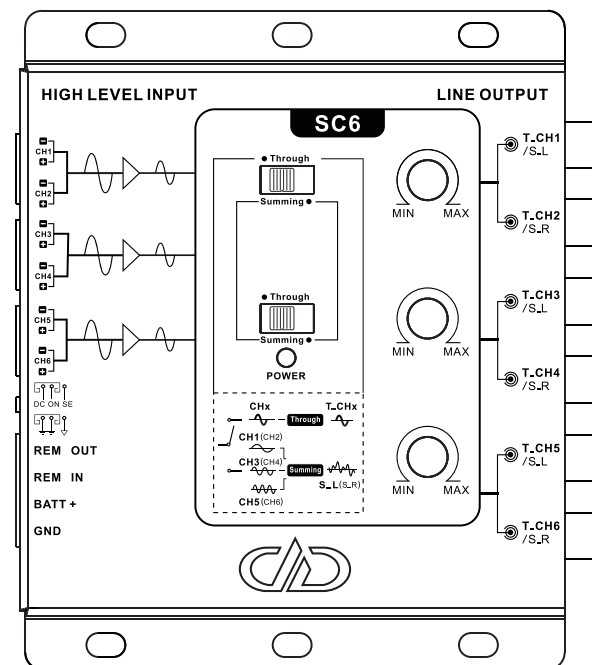
Power LED:

When illuminated indicates the unit is powered on.

THROUGH/SUMMING SWITCH:

When you set this switch to THROUGH, the inputs will pass through to the corresponding outputs. In this setting you will have full balance and fade functions for the connected channels from your factory source unit.

The SC4/6 has the ability to internally sum together input channels. This feature is used when integrating with a factory system that has multiple, actively crossed-over signals from the OEM source unit or amplifier. For example, in some vehicles there are



actively crossed-over tweeters and woofers present in the audio system. The SC4/6 allows you take those signals and sum them together to create a high-quality, full-range, pre-amp signal. To switch to summing mode set both switches to **SUMMING**. The top switch controls Summing for CH1, CH3, and CH5. The bottom switch controls Summing for CH2, CH4, and CH6.

If you only have signal connected to input Ch1-CH2, you can turn the SUMMING feature on to send signal on all OUTPUT channels.

NOTE: When using the Summing feature in this manner both the input sensitivity and turn-on sensitivity will be decreased. For proper performance use we suggest using the DC-ON or REM IN turn-on methods.

MIN/MAX Output Level Controls:

Your SC4/6 has level matching controls for each pair of output channels. These controls allow you to adjust the OUTPUT signal levels from your SC4/6 to match up with the pre-amp inputs of your aftermarket equipment.

NOTE: To avoid installation issues use caution when setting the level controls. If the level controls are set too high it can cause increased noise being sent to the connected amplifiers, override the connected amplifiers' pre-amp inputs causing distortion, and could possibly damage a connected amplifier.

LINE OUTPUT:

Connect these low-level RCA outputs to your aftermarket equipment's low-level RCA inputs.

If you have any questions regarding setup, installation or warranty please contact the DD Audio technical support team by email at service@ddaudio.com or by phone at (405) 239-2800.